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# **OctoCheese**

***Release 0.7.0***

## **Copy PyPI Packages to GitHub Releases**

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# Contents

<b>1</b>	<b>Installing as a Python package and script</b>	<b>3</b>
1.1	from PyPI . . . . .	3
1.2	from GitHub . . . . .	3
<b>2</b>	<b>GitHub Actions Usage</b>	<b>5</b>
2.1	Configuration . . . . .	5
<b>3</b>	<b>Script Usage</b>	<b>7</b>
<b>4</b>	<b>API Reference</b>	<b>9</b>
4.1	octocheese.__main__ . . . . .	9
4.2	octocheese.colours . . . . .	10
4.3	octocheese.core . . . . .	10
<b>5</b>	<b>Contributing</b>	<b>13</b>
5.1	Coding style . . . . .	13
5.2	Automated tests . . . . .	13
5.3	Type Annotations . . . . .	13
5.4	Build documentation locally . . . . .	14
<b>6</b>	<b>Downloading source code</b>	<b>15</b>
6.1	Building from source . . . . .	16
<b>7</b>	<b>License</b>	<b>17</b>
	<b>Python Module Index</b>	<b>21</b>
	<b>Index</b>	<b>23</b>



This is a GitHub action, Python package and command line script that copies distribution files from PyPI (“The Cheese Shop”) and adds them to the relevant tag in GitHub Releases.



## Installing as a Python package and script

### 1.1 from PyPI

```
$ python3 -m pip install octocheese --user
```

### 1.2 from GitHub

```
$ python3 -m pip install git+https://github.com/domdfcoding/octocheese@master --user
```





## GitHub Actions Usage

In a GitHub Workflow:

```
name: "Copy PyPI to Releases"
on:
  - push

jobs:
  releases:
    runs-on: ubuntu-latest
    steps:
      - uses: domdfcoding/octocheese@v0.7.0
        with:
          pypi_name: "domdf_python_tools"
        env:
          GITHUB_TOKEN: ${secrets.GITHUB_TOKEN}
```

### 2.1 Configuration

#### **pypi\_name**

**Type:** str

**Required:** True

The name of the project on PyPI.

The `GITHUB_TOKEN` must also be supplied otherwise the action will fail.



## Script Usage

Invoke using the `octocheese` command or `python3 -m octocheese`.

Copy PyPI Packages to GitHub Releases.

```
octocheese [OPTIONS] PYPI_NAME
```

### Options

- t, --token <token>**  
**Required** The token to authenticate with the GitHub API. Can also be provided via the 'GITHUB\_TOKEN' environment variable.
- r, --repo <repo>**  
The repository name (in the format <username>/<repository>) or the complete GitHub URL.
- n, --max-tags <max\_tags>**  
The maximum number of tags to process, starting with the most recent.  
  
**Default** -1
- T, --traceback**  
Show the full traceback on error.
- no-self-promotion**  
Don't show information about OctoCheese at the bottom of the release message.
- version**  
Show the version and exit.

### Arguments

- PYPI\_NAME**  
Required argument.

### Environment variables

- GITHUB\_TOKEN**  
Provides a default for `-t` / `--token`



## API Reference

### Table of Contents

- *API Reference*
  - `octocheese.__main__`
  - `octocheese.colours`
  - `octocheese.core`

Changed in version 0.3.0: All methods now take and return `github3.py` objects in place of their `PyGithub` counterparts.

### 4.1 `octocheese.__main__`

Entry points when running as a script.

#### Functions:

<code>run(github_token, github_username, ..., ...)</code>	Helper function for when running as script or action.
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**run** (*github\_token*, *github\_username*, *repo\_name*, *pypi\_name*, *self\_promotion=True*, *max\_tags=-1*)  
Helper function for when running as script or action.

#### Parameters

- **github\_token** (`Secret`) – The token to authenticate with the GitHub API with. See <https://help.github.com/en/github/authenticating-to-github/creating-a-personal-access-token> for instructions on generating a token.
- **github\_username** (`str`) – The username of the GitHub account that owns the repository.
- **repo\_name** (`str`) – The name of the GitHub repository.
- **pypi\_name** (`str`) – The name of the package on PyPI.
- **self\_promotion** – Show information about OctoCheese at the bottom of the release message. Default `True`.
- **max\_tags** (`int`) – The maximum number of tags to process, starting with the most recent. Set to `-1` to process all tags. Default `-1`.

Changed in version 0.1.0: Added the `self_promotion` option.

Changed in version 0.3.0: Added the `max_tags` option.

## 4.2 octocheese.colours

Functions for printing coloured text.

### Functions:

<code>error(text)</code>	Prints the given text in red to stderr.
<code>success(text)</code>	Prints the given text in green to stdout.
<code>warning(text)</code>	Prints the given text in yellow to stderr.

#### **error** (*text*)

Prints the given text in red to stderr.

**Parameters** **text** (*str*) – The text to print.

#### **success** (*text*)

Prints the given text in green to stdout.

**Parameters** **text** (*str*) – The text to print.

#### **warning** (*text*)

Prints the given text in yellow to stderr.

**Parameters** **text** (*str*) – The text to print.

## 4.3 octocheese.core

The main logic of octocheese.

### Functions:

<code>copy_pypi_2_github(g, repo_name, ..., ...)</code>	The main function for OctoCheese.
<code>make_release_message(name, version, release_date)</code>	Create a release message.
<code>update_github_release(repo, tag_name, pypi_name)</code>	Update the given release on GitHub with the new name, message, and files.

**copy\_pypi\_2\_github** (*g*, *repo\_name*, *github\_username*, \*, *changelog*="", *pypi\_name*=None, *self\_promotion*=True, *max\_tags*=- 1, *traceback*=False)

The main function for OctoCheese.

#### **Parameters**

- **g** (*GitHub*)
- **repo\_name** (*str*) – The name of the GitHub repository.
- **github\_username** (*str*) – The username of the GitHub account that owns the repository.
- **changelog** (*str*) – Default ' '.
- **pypi\_name** (*Optional[str]*) – The name of the project on PyPI. Default The value of *repo\_name*.

- **self\_promotion** – Show information about OctoCheese at the bottom of the release message. Default `True`.
- **max\_tags** (`int`) – The maximum number of tags to process, starting with the most recent. Set to `-1` to process all tags. Default `-1`.
- **traceback** (`bool`) – Show the full traceback on error. Default `False`.

Changed in version 0.1.0: Added the `self_promotion` option.

Changed in version 0.3.0:

- Added the optional `max_tags` option.
- Added the optional `traceback` parameter.

**make\_release\_message** (*name, version, release\_date, changelog="", self\_promotion=True*)  
Create a release message.

#### Parameters

- **name** (`str`) – The name of the software.
- **version** (`Union[str, float]`) – The version number of the new release.
- **release\_date** (`date`) – The date of the release.
- **changelog** (`str`) – Optional block of text detailing changes made since the previous release.
- **self\_promotion** – Show information about OctoCheese at the bottom of the release message. Default `True`.

**Return type** `str`

**Returns** The release message.

Changed in version 0.1.0: Added the `self_promotion` option.

**update\_github\_release** (*repo, tag\_name, pypi\_name, changelog="", self\_promotion=True, file\_urls=(), traceback=False*)

Update the given release on GitHub with the new name, message, and files.

#### Parameters

- **repo** (`Repository`)
- **tag\_name** (`str`)
- **pypi\_name** (`str`) – The name of the project on PyPI.
- **changelog** (`str`) – The changelog entry for the release. Default `''`.
- **self\_promotion** (`bool`) – Show information about OctoCheese at the bottom of the release message. Default `True`.
- **file\_urls** (`Union[Iterable[str], Iterable[FileURL]]`) – The files to download from PyPI and add to the release. Either the files URLs themselves, or mappings giving the URL and its sha256 checksum. Default `()`.
- **traceback** (`bool`) – Show the full traceback on error. Default `False`.

**Return type** `Release`

**Returns** The release, and a list of URLs for the current assets.

Changed in version 0.3.0: Now takes a very different set of parameters to the previous version. Please read the current documentation carefully.



## Contributing

OctoCheese uses `tox` to automate testing and packaging, and `pre-commit` to maintain code quality.

Install `pre-commit` with `pip` and install the git hook:

```
$ python -m pip install pre-commit
$ pre-commit install
```

### 5.1 Coding style

`formate` is used for code formatting.

It can be run manually via `pre-commit`:

```
$ pre-commit run formate -a
```

Or, to run the complete autoformatting suite:

```
$ pre-commit run -a
```

### 5.2 Automated tests

Tests are run with `tox` and `pytest`. To run tests for a specific Python version, such as Python 3.6:

```
$ tox -e py36
```

To run tests for all Python versions, simply run:

```
$ tox
```

### 5.3 Type Annotations

Type annotations are checked using `mypy`. Run `mypy` using `tox`:

```
$ tox -e mypy
```

## 5.4 Build documentation locally

The documentation is powered by Sphinx. A local copy of the documentation can be built with `tox`:

```
$ tox -e docs
```

## Downloading source code

The OctoCheese source code is available on GitHub, and can be accessed from the following URL: <https://github.com/domdfcoding/octocheese>

If you have git installed, you can clone the repository with the following command:

```
$ git clone https://github.com/domdfcoding/octocheese
```

```
Cloning into 'octocheese'...
remote: Enumerating objects: 47, done.
remote: Counting objects: 100% (47/47), done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 173 (delta 16), reused 17 (delta 6), pack-reused 126
Receiving objects: 100% (173/173), 126.56 KiB | 678.00 KiB/s, done.
Resolving deltas: 100% (66/66), done.
```

Alternatively, the code can be downloaded in a ‘zip’ file by clicking:

*Clone or download → Download Zip*

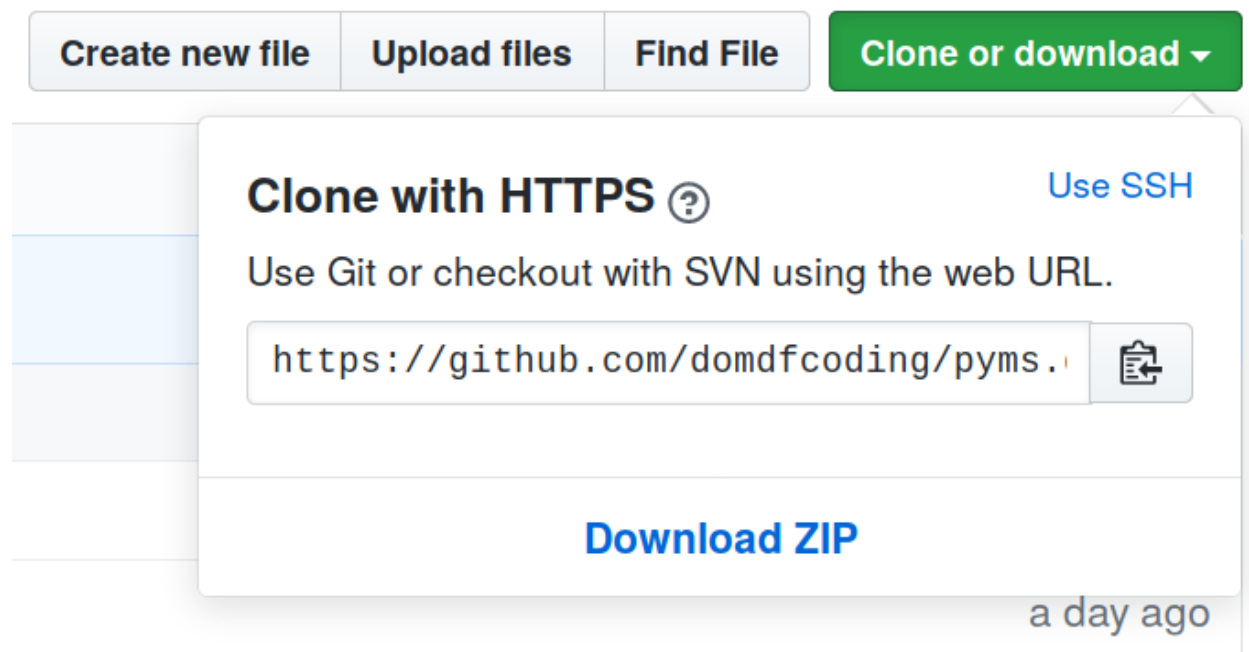


Fig. 1: Downloading a ‘zip’ file of the source code

## 6.1 Building from source

The recommended way to build OctoCheese is to use `tox`:

```
$ tox -e build
```

The source and wheel distributions will be in the directory `dist`.

If you wish, you may also use `pep517.build` or another **PEP 517**-compatible build tool.

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## Python Module Index

### O

`octocheese.__main__`, [9](#)  
`octocheese.colours`, [10](#)  
`octocheese.core`, [10](#)



## Symbols

-T  
     octocheese command line option, 7  
 --max-tags <max\_tags>  
     octocheese command line option, 7  
 --no-self-promotion  
     octocheese command line option, 7  
 --repo <repo>  
     octocheese command line option, 7  
 --token <token>  
     octocheese command line option, 7  
 --traceback  
     octocheese command line option, 7  
 --version  
     octocheese command line option, 7  
 -n  
     octocheese command line option, 7  
 -r  
     octocheese command line option, 7  
 -t  
     octocheese command line option, 7

## C

copy\_pypi\_2\_github() (in module  
     octocheese.core), 10

## E

error() (in module octocheese.colours), 10

## G

GNU Lesser General Public License  
     v3.0, 17

## M

make\_release\_message() (in module  
     octocheese.core), 11

module

    octocheese.\_\_main\_\_, 9  
     octocheese.colours, 10  
     octocheese.core, 10

## O

octocheese command line option

-T, 7  
 --max-tags <max\_tags>, 7  
 --no-self-promotion, 7  
 --repo <repo>, 7  
 --token <token>, 7  
 --traceback, 7  
 --version, 7  
 -n, 7  
 -r, 7  
 -t, 7  
 PYPI\_NAME, 7  
 octocheese.\_\_main\_\_  
     module, 9  
 octocheese.colours  
     module, 10  
 octocheese.core  
     module, 10

## P

PYPI\_NAME  
     octocheese command line option, 7  
 pypi\_name (configuration value), 5  
 Python Enhancement Proposals  
     PEP 517, 16

## R

run() (in module octocheese.\_\_main\_\_), 9

## S

success() (in module octocheese.colours), 10

## U

update\_github\_release() (in module  
     octocheese.core), 11

## W

warning() (in module octocheese.colours), 10